

On the dependence of cosmic ray propagation parameters upon some basic source properties.

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An understanding of the origin of cosmic rays requires inferring source as well as propagation parameters from the analysis of the data. While it is well appreciated that propagation parameters depend on the propagation model adopted, it is also important to gauge to what extent they are affected by more or less implicit assumptions on the source properties. I present some results about such possible “theoretical biases” within the slab framework.

In particular, I investigate the impact of hypotheses such as the universality of the injection spectral index and the lift of the hypothesis that “fragile nuclei” (such as Boron) are completely absent at injection.

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